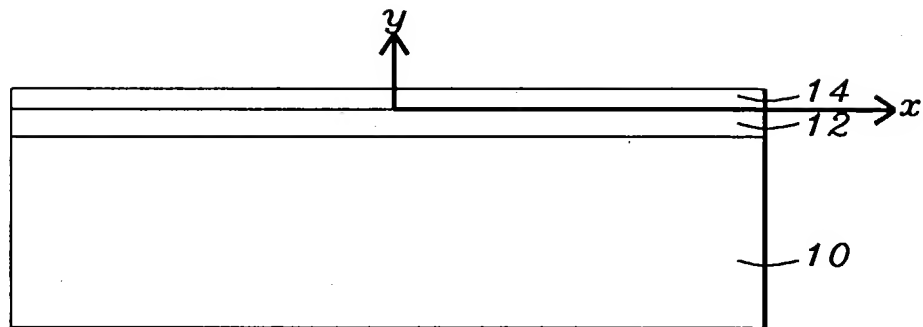
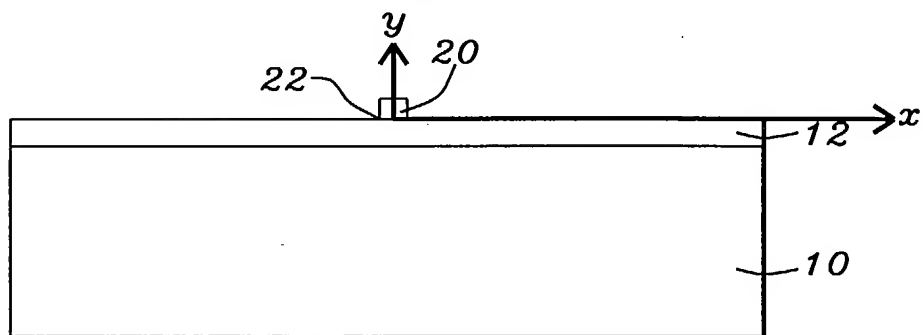


*Stress Modeling*

*Underclad 12 and core layers 14  
on substrate 10*

*FIG. 1**Stress Modeling*

*Waveguide 20 etched in  
core layer 14*

*FIG. 2*

## Stress Modeling

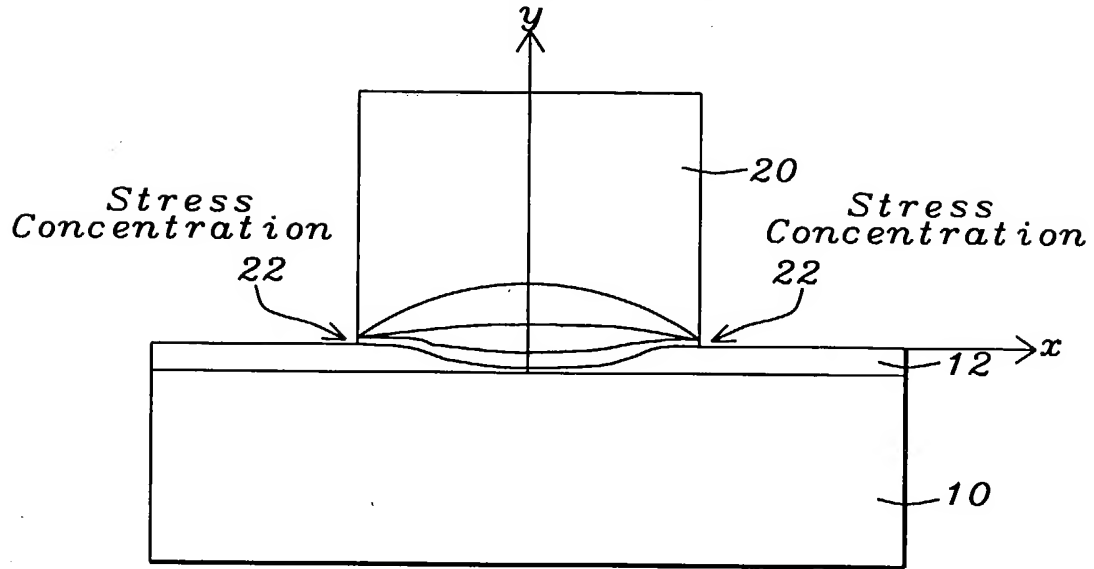


FIG. 3

## Stress Modeling

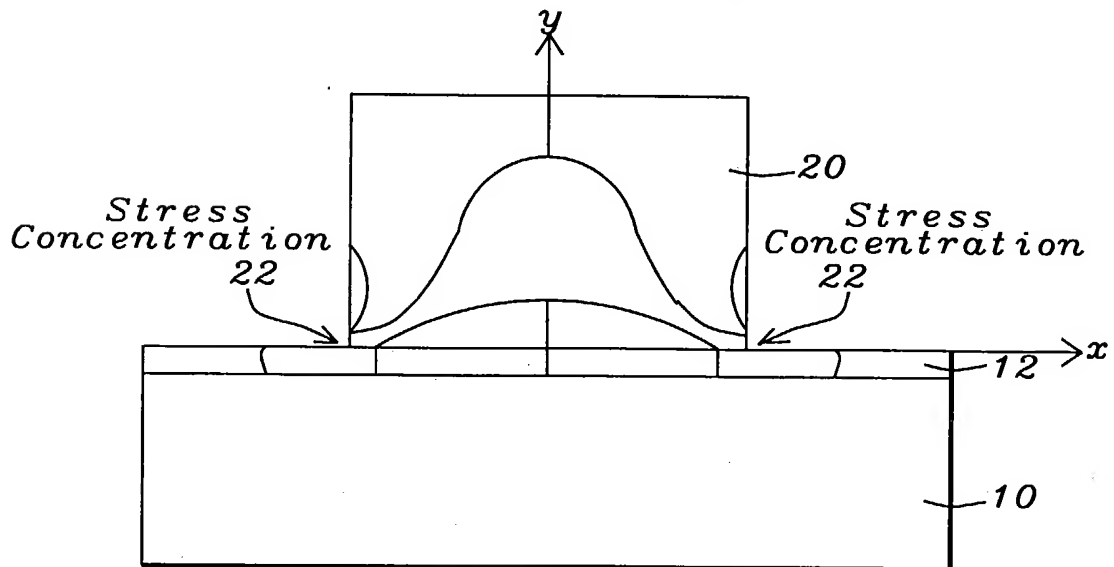


FIG. 4

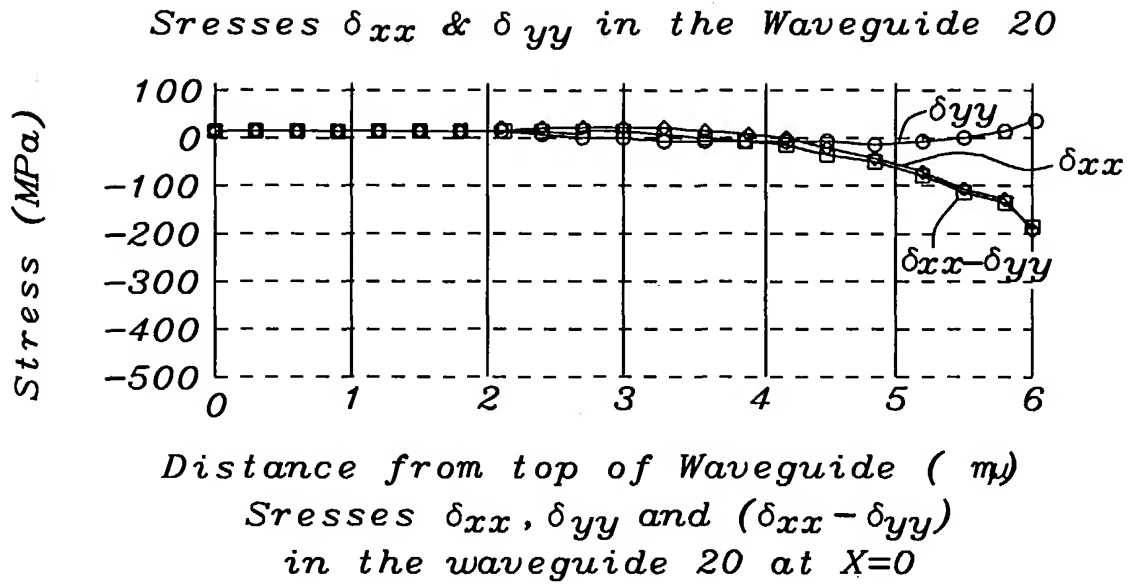


FIG. 5

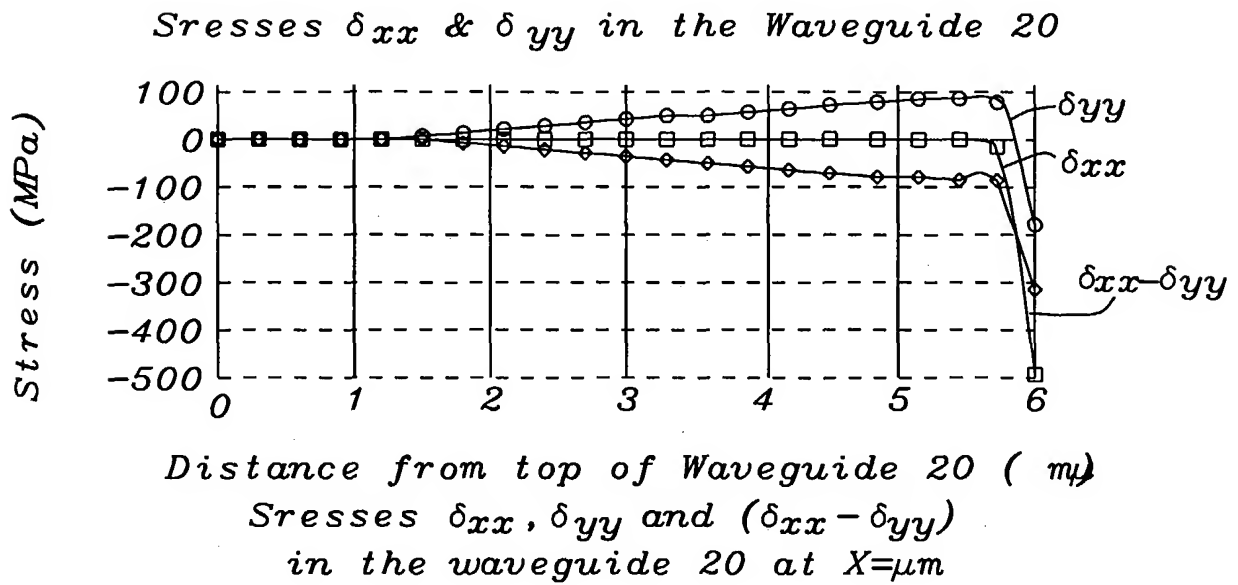
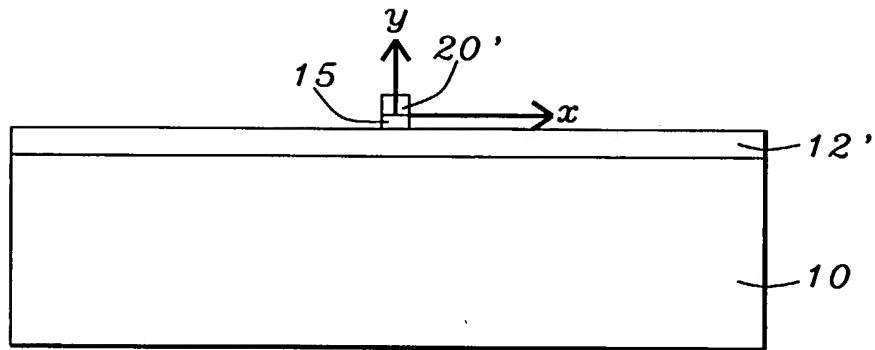
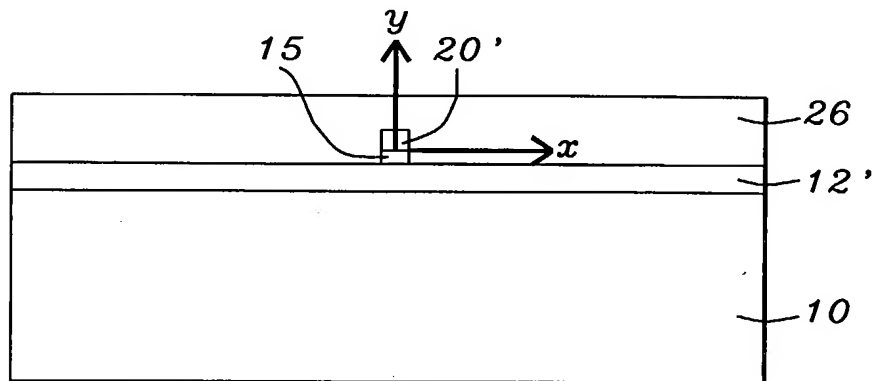


FIG. 6



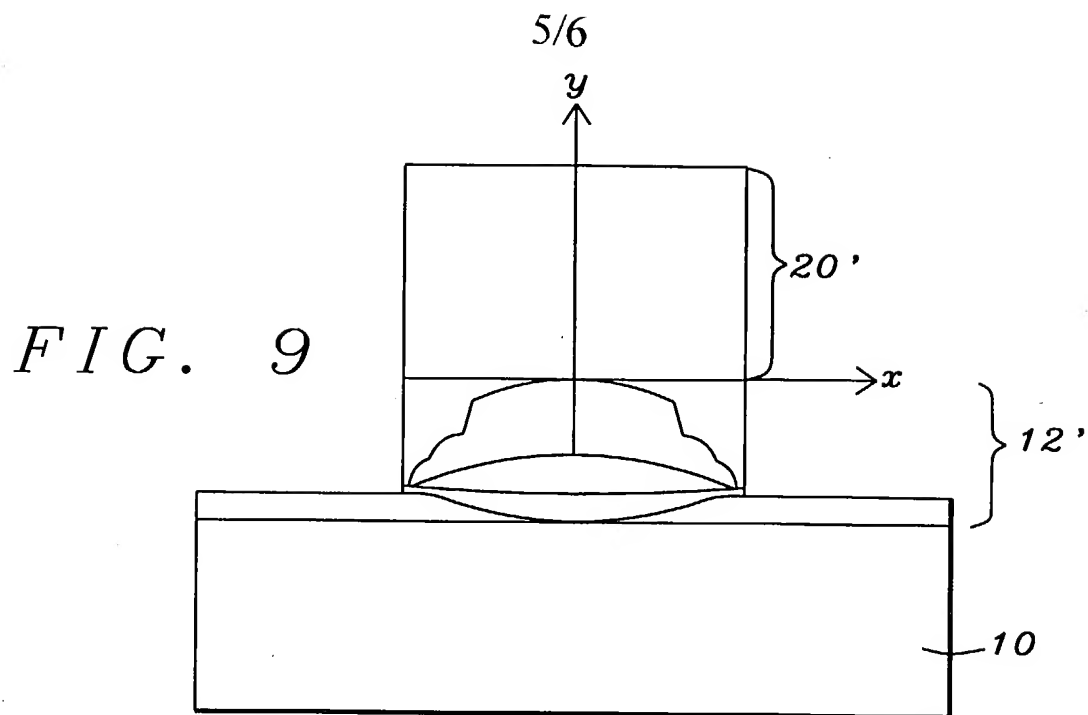
*Waveguide 20' over-etched into  
underclad layer 12*

*FIG. 7*

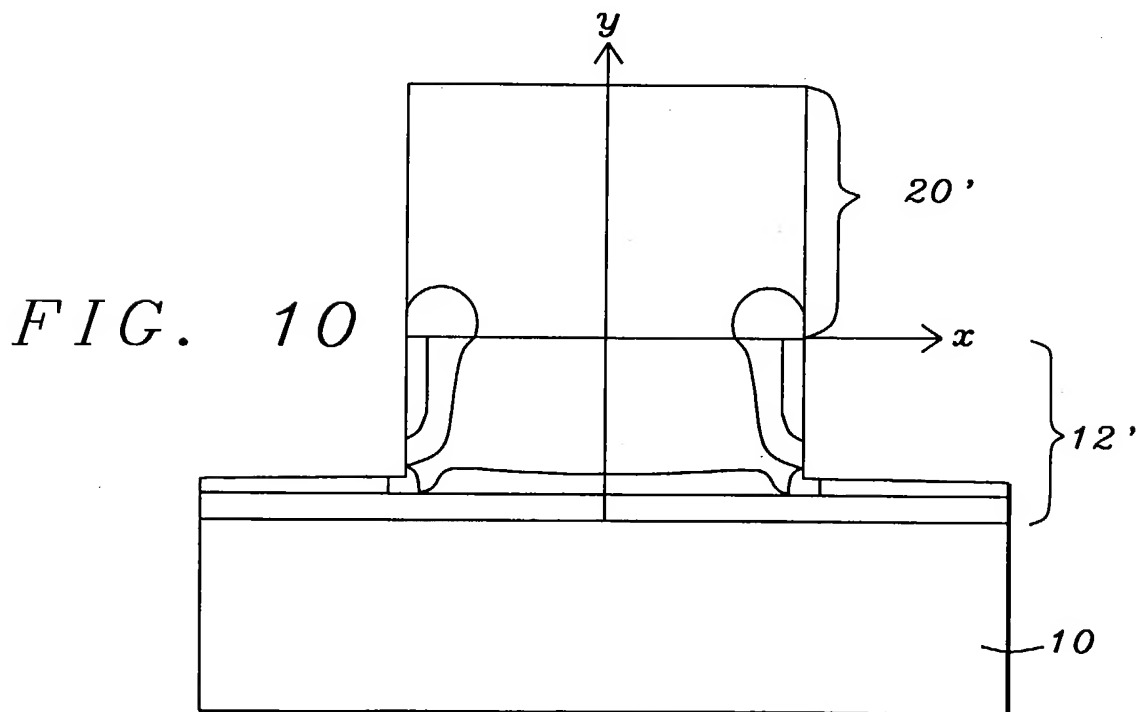


*Overclad 26 around and on top  
of waveguide 20'*

*FIG. 8*



*Stress contours for  $\delta'_{xx}$   
(negative is compressive and  
positive is tensile)*



*Stress contours for  $\delta'_{yy}$   
(negative is compressive and  
positive is tensile)*

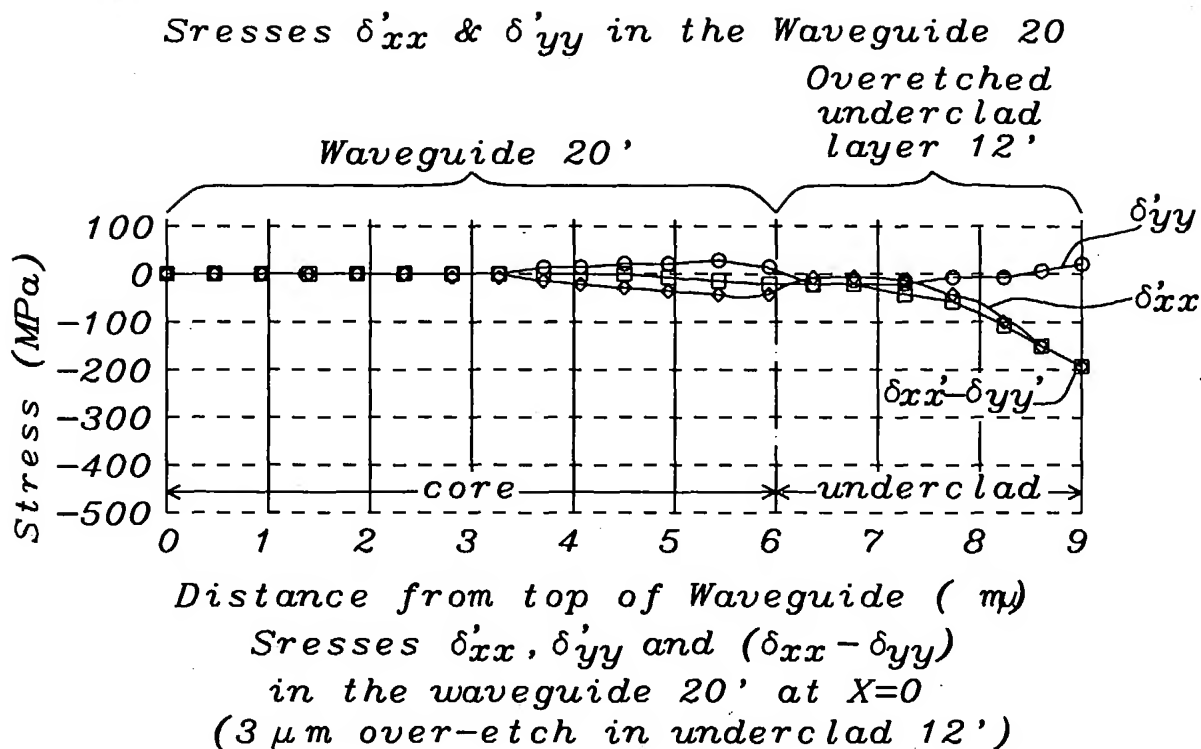


FIG. 11

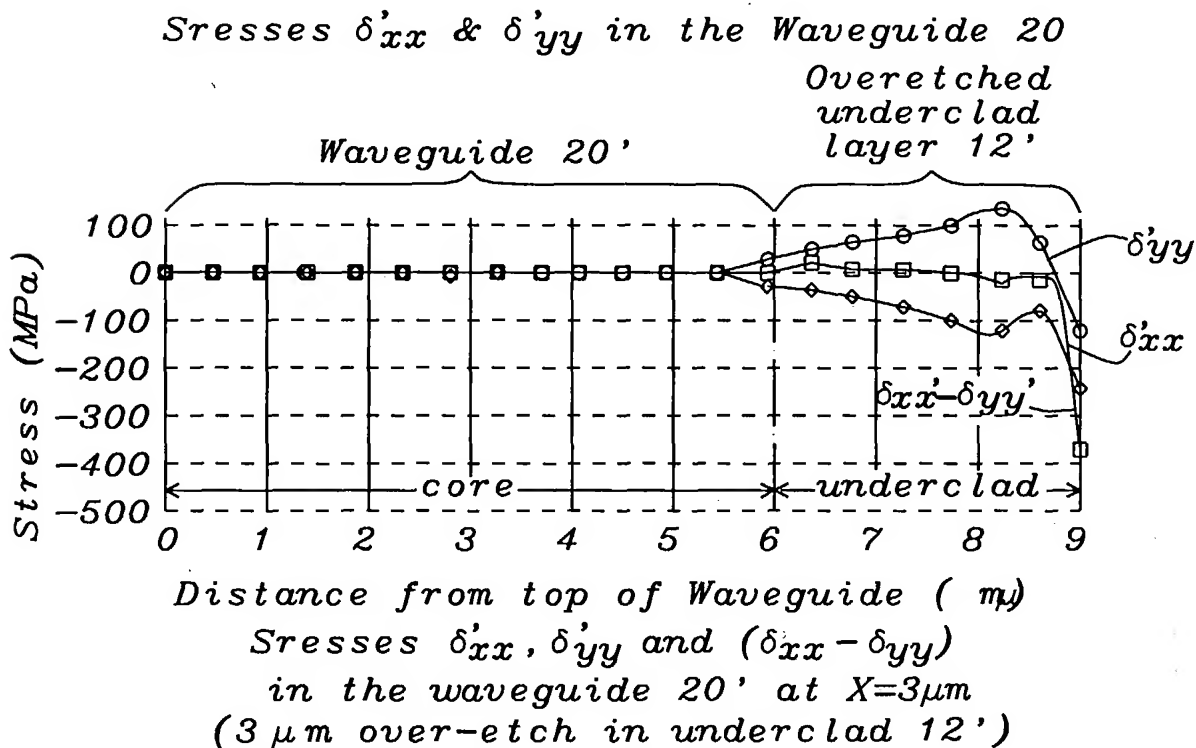


FIG. 12